Nationally, about 1 in 16 workers (6.2% or 8.7 million) have occupations as scientists or engineers (4.8%), or technical workers (1.4%). The STEM workforce is larger still when defined as either those who hold a bachelor's degree or higher in S&E (23.2 million) or those who use technical expertise in S&E in their jobs (19.4 million).

A state's S&E performance helps fuel its and the nation's economy. Four benchmarks of Vermont's S&E performance are highlighted here: the cost of public higher education, the size of the STEM workforce, investment in research and development, and venture capital funding.

### Rising Cost of a Bachelor’s Degree

A bachelor’s degree is one of several entry points to higher paying jobs associated with science, engineering, and many technical occupations.

Nationally, 31% of the total U.S. workforce has a bachelor’s degree or higher. In contrast, 75% of workers in S&E occupations have a bachelor’s degree or higher.

Source: National Center for Education Statistics, *Digest of Education Statistics*

### STEM Workforce: People Working in STEM Occupations

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Research and development (R&D) spending is a driver of innovation. Investing in science and technology today has ripple-effect benefits throughout the economy over the long term.

Annual state performance in R&D varies considerably, from $253 million (WY) to $125 billion (CA). Vermont is one of 12 states that performs less than $1 billion per year in R&D. In this figure, Vermont’s percent change in R&D spending is compared to the two highest states and the second lowest state within this group.

Venture capital investment supports U.S. businesses that take on the risk of developing and commercializing cutting-edge, emerging technologies. States with high values are successful at attracting venture capital to fuel new kinds of business, and ultimately, expand economic growth.

Source: NSF, National Center for Science and Engineering Statistics, National Patterns of R&D Resources